

IN THE ABSTRACT:

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### ABSTRACT OF THE DISCLOSURE

A disturbance estimated-type control system has a control object based on a mathematical model having of one of a state equation and a transfer function and prepared by system identification technology. A disturbance estimating device is based on an expansion system based on the mathematical model for estimating a disturbance of the control object in accordance with an input signal inputted into the control object and a detection signal detected from the control object. A compensating device is based on the mathematical model for compensating for a deviation between the detection signal and a target value and for outputting a corresponding control signal. A subtractor subtracts the control signal of the compensating device from a disturbance estimated value of the disturbance estimating device.